

4-27-71
FILE NO. G-70-02-16 (AMENDED)

GENERAL ORDINANCE NO. G-111-71

AN ORDINANCE amending the Building Code with respect to Commercial and Industrial (non-sanitary) piping systems.

BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA:

SECTION 1. Section 108.4 of Division 100 of Chapter 37 of the Municipal Code of the City of Fort Wayne, Indiana, 1946, as amended and re-codified by General Ordinance No. G-66-66, passed by the Common Council on June 14, 1966, and approved by the Mayor on June 15, 1966, hereinafter referred to as the Building Code, is hereby amended by adding thereto the following:

108.4.1 Permits

108.4.1.1 Need for Permit - No Non-Sanitary piping work shall be done in the city in any building or other place coming within the jurisdiction of this code, except in case of repair of leaks in existing systems until a permit has been issued for the piping work proposed.

108.4.1.2 Unlawfully Securing Permits for Others - Any person not fully qualified as required by this Code to supervise or perform any work governed by this Code, who shall take out or secure a permit as required by this Code for work to be done by any person not qualified, not in the employ of such qualified person, or, who shall allow his name to be used by any other person for the purpose either of doing any such work or obtaining a permit therefor, shall by such act, upon conviction thereof forthwith forfeit qualification status.

Certification of qualifications of a person requesting a permit may be required by the Building Commissioner in case of doubt.

- 108.4.2 Application - Before the granting of a permit, an application shall be made on the appropriate blanks as are provided for that purpose. The permit shall then be issued by the Building Department.
- 108.4.3 Expiration of Permit - Every permit shall be considered void if active work is not commenced within a period of ninety days after the date of issuance of same. However, an extension may be granted by the Building Commissioner upon request. If active work on an installation has been suspended for a period of sixty days, the permit for such work shall be considered null and void.
- 108.4.4 Revocation of Permit - The Piping Inspector may revoke a permit issued when there has been any false statement or misrepresentation in the application or plans on which the permit was based. The Piping Inspector may revoke a permit issued if reasonable access for inspection under this Code should be withheld from a properly authorized person."

SECTION 2. Section 109.4 of Division 100 of the Building Code is hereby amended by adding thereto the following:

- 109.4 COMMERCIAL AND INDUSTRIAL (NON-SANITARY) PIPING & SYSTEMS
- 109.4.1 Fees for Permit - Fees for permits are listed below and will be based on the cost or value of the piping systems.
- | | | |
|------|--|-------------|
| \$ | 0.00 - \$1,000.00----- | \$3.00 |
| | \$1,000.00 - \$2,000.00----- | \$5.00 |
| Over | \$2,000.00----- | \$5.00 plus |
| | an additional fee of \$1.00 for each \$1,000.00 of cost or value or fractional part thereof in excess of \$2,000.00. | |
- 109.4.2 Technical Variance Fee - The application fee for any technical variance shall be \$25.00."

SECTION 3. Division 600 of the Building Code is hereby amended to read as follows:

"DIVISION 600

COMMERCIAL & INDUSTRIAL

(NON-SANITARY) PIPING & SYSTEMS
(Minimum Requirements)

- 600.1 PURPOSE - The purpose of this code is to protect and preserve life and property of those coming under its jurisdiction within the limits of the City of Fort Wayne, Indiana.
- 601 SCOPE
601.1 - The following orders, rules, standards, regulations and classifications shall apply to all new construction, additions, alterations, remodeling or changes in occupancy or use, and repair or maintenance in, for or about any building or structure of any kind, class or character, used or to be used, for any purpose whatsoever.

601.2 - When in Paragraph 601.1, above, reference is made to additions, alterations, remodeling, repair or maintenance, it shall not be construed to mean that existing system, part or all of which may not comply with this code, shall be replaced in order that approval may be obtained for the additional, altered, remodeled, or repaired portion of the system.
- 602 DEFINITIONS - (none)
- 603 REFERENCE TO STANDARDS
603.1 - All installations shall be in strict conformity with the provisions of this ordinance, the Statutes of the State of Indiana, the rules and regulations issued by the State Fire Marshal of Indiana, or other State regulatory bodies, under authority of the State Statutes and shall be in conformity with approved standards of construction for safety to life and property. Unless otherwise specified in this code, conformity with the published standards listed and referred to hereafter shall be prima facie evidence of conformity with this code the same as if the referenced standards were printed herein.

603.2 - In case two or more of the above standards conflict, the requirements of the more restrictive standard shall prevail.
- 604 SYSTEMS COVERED
Piping systems covered in this Division shall include all systems not now covered in other Divisions of this code. Specifically such systems may be:

Flammable Gas Systems
Non-flammable Gas Systems
Flammable Liquid Systems

Non-flammable Liquid Systems
Fire Protection Systems
Chemical Systems
Radioactive Systems
Lawn Sprinkler Systems

605

FLAMMABLE GAS SYSTEMS

605.1 - All piping, materials, appliances and equipment used in connection with flammable gases shall be in conformity with the standards of the State Fire Marshal of Indiana, the Underwriters Laboratories, Inc., The American National Standards Institute, The American Gas Association and the Standards of the National Fire Protection Association, numbered and titled as follows:

NFPA Standards

<u>Number</u>	<u>Title</u>
37	Combustion Engines and Gas Turbines.
51	Oxygen-Fuel Gas Systems for welding and cutting.
51B	Welding and Cutting Processes.
54	Installation of Gas appliances and Gas Piping in Buildings.
56	Flammable Anesthetics Code.
566	Bulk Oxygen Systems at Consumer Sites.
567	Gaseous Hydrogen Systems at Consumer Sites.
58	Storage and Handling of Liquified Petroleum Gases.
59	LP-Gases at Utility Gas Plants.

ANSI Standards

<u>Number</u>	<u>Title</u>
B31.1	Power Piping Systems
B31.2	Industrial Gas & Air Piping Systems
B31.3	Petroleum Refinery Piping
B31.4	Liquid Petroleum Transportation Piping
B31.8	Gas Transmission and Distribution Piping Systems

605.2

WORKMANSHIP

All labor shall be performed in a thorough and workman-like manner, and whenever it appears, in the opinion of the Inspector, that any work covered by this Division is being otherwise installed, the Inspector shall order such changes as he shall deem necessary.

605.3

WELDING - GENERAL REQUIREMENTS

605.3.1 - Identification of Welds.

Each welder shall permanently identify welds made by him with a symbol which has been registered with the Piping Inspector.

605.3.2 - Certification of Welders.

Each welder shall be qualified for the type of welding being performed. Such qualification shall be evidenced by certification with the Piping Inspector.

605.3.2.1 - Regualification requirements

Welder requalification tests shall be required if there is some specific reason to question a welder's ability or the welder is not engaged in a given process of welding (i.e., arc or gas) for a period of six months or more.

605.3.3 - Testing of Welds.

Periodically with frequency as specified by the Piping Inspector, weld samples may be required for test and evaluation for quality.

605.4

PIPELINE SAFEGUARDS

Installation of flammable gas pipelines shall include adequate safeguards, which include but are not limited to the following.

605.4.1 - Relief Valves.

When pressure-reducing devices are used, a suitable device shall be provided in addition to prevent actual over pressuring. Suitable types of protective devices shall prevent over pressuring of distribution systems and may include:

- (1) Liquid seal devices
- (2) Mechanical relief valves
- (3) Automatic Shut-off devices
- (4) Pilot loaded back pressure regulators.
- (5) Monitoring regulators
- (6) Series regulator

605.4.2 - Depth of Burial

Pipes shall be installed so as to withstand maximum anticipated superimposed loads.

605.4.3

Pipeline shall be pressure tested and all leaks repaired before placing in service.

605.5

ODORIZATIZATION

Any gas distributed to customers through gas mains or service lines or used for domestic purposes in compressor plants, which does not naturally possess a distinctive odor to the extent that its presence in the atmosphere is readily detectable at all gas concentrations of one-fifth of the lower explosive limit and above, shall have an odorant added to make it so detectable.

605.6.1

When Odorant is added, periodic sampling shall be conducted to determine effectiveness of odorization and necessary records kept by the gas supplier. Such records shall be readily available for inspection by the Building Commissioner or his designee.

605.6

DISTRIBUTION PIPING MAINTENANCE

605.6.1 - Patrolling

Distribution mains, which are installed in locations or on structures where abnormal physical movement or abnormal external loading could cause failure or leakage, shall be patrolled periodically, and the frequency of patrolling shall be determined by the severity of the conditions which could cause failure or leakage and the consequent hazards to public safety. Once the frequency of inspection has been established by the piping inspector, the owner shall submit certification that such inspections were held and further shall submit a report of their findings to the piping inspector.

605.6.2 - Leakage Surveys and Routine Procedures

605.6.2.1 - Each operating company having a gas distribution system shall set up in its operating and maintenance plan a provision for the making of periodic leakage surveys. The types of surveys prescribed in the plan shall be one or more of the following employed singly or in combination, or some other effective procedure for locating leaks in underground piping systems:

- (a) Gas detector surveys.
- (b) Bar Test surveys.
- (c) Vegetation surveys.
- (d) Pressure drop surveys.
- (e) Soapsuds testing on exposed pipe and fittings.

605.6.2.2 - The nature of the operations and local conditions of each individual company shall determine the type and scope of the leakage control program most suitable. The character of the general service area together with housing concentration should determine the frequency of the inspection program.

It is recommended that the inspection program include at least the following provisions:

(a) At least once a year a gas detector survey should be conducted in business districts by the utility, involving tests of the atmosphere in gas, electric, telephone, sewer and water system manholes at cracks in pavement and sidewalks and at other locations providing an opportunity for finding gas leaks. Leakage surveys, using one or more of the types referred to in 605.6.2.1, should be made of the distribution system outside of the principal business areas as frequently as experience indicates that they are necessary but not less than once every five years.

(b) Leaks located by these surveys shall be investigated promptly and any necessary repairs shall be made. When the condition of a main or a service, as indicated by leak frequency records or visual observation, deteriorates to the point where it should not be retained in service, it should be replaced or reconditioned.

605.6.3 - Abandoning of Distribution Facilities

Each operating company shall have a plan in its operating and maintenance procedures for sealing off the supply of gas to all abandoned distribution facilities including service lines, mains, control lines, equipment and appurtenances. This plan shall include procedures for abandoning service lines that have remained inactive for a period of 2 years and for which there is no planned use. It is recommended that the plan include the following provisions:

(a) If the facilities are abandoned in place or are disconnected or separated, the ends shall be capped, plugged or otherwise effectively sealed.

(b) In cases where a main is abandoned, together with the service lines connected to it, only the customer's end of such service lines need be sealed as stipulated above.

605.6.4 - Test Requirement for Reinstating Abandoned and Temporarily Disconnected Service Lines.

Service lines previously abandoned shall be tested in the same manner as new service lines before being re-instated. Service lines temporarily disconnected because of main renewals or other work shall be tested from the point of disconnection to the meter set assembly in the same manner as new service lines before reconnecting. Water, air, inert gas or gas may be used as the test medium.

NON FLAMMABLE GAS SYSTEMS

All piping, materials, appliances, equipment and installations in connection with non-flammable gases shall be in conformity with the standards of the Underwriters Laboratories, Inc., the American Society of Mechanical Engineers for Pressure Piping for Unfired Pressure Vessels and for Pressure Relieving Devices, and the standards of the National Fire Protection Association, numbered 56F and titled "Non-Flammable Medical Gas System."

FLAMMABLE LIQUIDS

All piping materials, appliances, equipment and installations in connection with flammable liquids shall be in conformity with the standards of the Underwriters Laboratories, Inc., the rules and regulations of the State Fire Marshal of Indiana, the National Safety Council, Inc., Pamphlet No. 24, titled "Safe Practices," and the standards of the National Fire Protection Association numbered and titled as follows:

<u>Number</u>	<u>Title</u>
30	Flammable and Combustible Liquids Code.
31	Installation of Oil Burning Equipment.
32	Drv Cleaning Plants.
321	Basic Classifications, Flammable and Combustible Liquids.
325A	Flash Points - Trade Name Liquids
325M	Prop. Flammable Liquids
326	Warning Labels on Flammable Liquid Containers
327	Cleaning Small Tanks
328	Manholes, Sewers, Flammable Liquids & Gases
329	Leakage from Underground Flammable and Combustible Liquid Tanks.
33	Spray Finishing Using Flammable Materials.
34	Dip Tanks Containing Flammable or Combustible Liquids.
35	Manufacture of Organic Coatings.
36	Solvent Extraction Plants.
37	Combustion Engines and Gas Turbines.

607.1 Additional Requirements.

607.1.1 Installation of underground tanks shall be in conformity with rules and regulations of the State Fire Marshall of Indiana concerning use, handling, storage and sale of Flammable Liquids.

Excavation - Excavation for underground storage tanks shall be made with due care to avoid undermining of foundations of existing structures.

Depth and Cover - Underground tanks shall be fixed to firm foundations and surrounded with an appropriate type of granular backfill well tamped in place. Tanks under driveways or heavy traffic areas shall be covered with not less than 16 inches of granular fill and not less than eight inches of reinforced concrete. Tanks under non-traffic areas shall be covered with not less than 24 inches of granular fill.

607.1.2 Discharge piping from underground tanks - Pipes shall be substantially supported and protected against physical damage and excessive stresses arising from settlement, vibration, expansion or contraction, and shall include a section of flexible pipe not less than one foot in length starting at the tank joint. This flexible pipe shall be approved for the purpose. All pipes shall drain toward the main tank.

607.1.3 Safety Shut-Off Valves - Where submersible pumps are used in flammable liquid tanks, a remote shut-off, or impact valve shall be installed, solidly connected with the pedestal or island, and approved for the purpose.

607.1.4 Vent Piping - Vent piping shall be laid so as to drain toward the tank without sags or traps in which liquid can collect. They shall be located so that they will not be subjected to physical damage. The tank end of the vent pipe shall enter the tank through the top.

607.1.5 Removal of Tanks - Underground tanks containing flammable liquids including, but not limited to gasoline, fuel and waste oil, shall be removed upon abandonment. Abandonment, for the purpose of this section, shall be construed to mean that the premises will be used for other purposes not requiring the use of the tanks.

608

NON FLAMMABLE LIQUID SYSTEMS

All piping, material, appliances, equipment and installations used in connection with non-flammable liquid systems, including, but not limited to processing condensates, milk and food products, brine, refrigerants, hydraulic fluids, carbon dioxide, etc., shall be in conformity with the standards of the American Society of Mechanical Engineers, and the recommended standards of the Fluid Power Society and their then current publications.

FIRE PROTECTION SYSTEMS

All materials and installation in connection with fire protection systems shall be in conformity with the rules and regulations of the State Fire Marshal of Indiana, and the standards of the National Fire Protection Association, numbered and titled as follows:

<u>Number</u>	<u>Title</u>
11	Foam Extinguishing Systems.
12	Carbon Dioxide Extinguishing Systems.
13	Installation of Sprinkler Systems.
14	Installation of Standpipe and Hose Systems.
15	Water Spray Systems for Fire Protection.
16	Foam-Water Sprinkler and Spray Systems.
17	Dry Chemical Extinguishing Systems.
20	Installations of Centrifugal Fire Pumps.
22	Water Tanks for Private Fire Protection.
23	Fire Department Connections, Sprinkler, Standpipe Systems.
24	Outside Protection (Yard Piping).

CHEMICAL SYSTEMS

All piping, materials, appliances and equipment used in connection with chemical systems shall be in conformity with the applicable ANSI Standard, such as ANSI STD. B31.6, Chemical Plant Piping.

RADIOACTIVE MATERIALS SYSTEMS

All piping systems conveying radioactive materials shall be installed in accordance with the recommendations of Atomic Energy Commission of the Federal Government and the standards of the National Fire Protection Association, #801 - "Safe Practice for Nuclear Reactors," and USE STD. B31.7 Nuclear Power Piping.

GENERAL REGULATIONS

612.1 Any type of piping system not specifically covered by this code shall be installed in accordance with accepted practice for that type of piping, and in accordance with rules and regulations of other regulatory bodies having jurisdiction thereof, and shall be in conformity with manufacturers' recommendations. Two copies of the manufacturers' recommendations shall be furnished the Building Commissioner upon making application for a permit for the specific installations."

SECTION 4. This ordinance shall be in full force and effect from and after its passage, approval by the Mayor and legal publication as required by law.

Read the first time in full and on motion by _____ seconded by _____ and duly adopted, read the second time by title and referred to the (Committee on) _____ (and to the City Plan Commission for recommendation) (and Public Hearing to be held after due legal notice, at the Council Chambers, City Hall, Fort Wayne, Indiana, on _____ the _____ day of _____ 19 ____, at _____ o'clock P.M., E.S.T.

Date: _____

Harold S. Borchom
City Clerk

Read the third time in full and on motion by _____ seconded by Robinson and duly adopted, placed on its passage. Passed (~~lost~~) by the following vote:

AYES	<u>9</u>	NAYS	<u>0</u>	ABSTAINED	_____	ABSENT	_____	to-wit:
Adams	<u>✓</u>	_____	_____	_____	_____	_____	_____	
Dunifon	<u>✓</u>	_____	_____	_____	_____	_____	_____	
Fay	<u>✓</u>	_____	_____	_____	_____	_____	_____	
Geake	<u>✓</u>	_____	_____	_____	_____	_____	_____	
Nuckols	<u>✓</u>	_____	_____	_____	_____	_____	_____	
Robinson	<u>✓</u>	_____	_____	_____	_____	_____	_____	
Rousseau	<u>✓</u>	_____	_____	_____	_____	_____	_____	
Steigerwald	<u>✓</u>	_____	_____	_____	_____	_____	_____	
Tipton	<u>✓</u>	_____	_____	_____	_____	_____	_____	

Date 4-27-71

Harold S. Borchom
City Clerk

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (~~Zoning Map~~) (~~General~~) (~~Annexation~~) (~~Special~~) (~~Appropriation~~) Ordinance (~~Resolution~~) No. 8-111-71 on the 27th day of April, 19 71.

ATTEST:

(SEAL)

Harold S. Borchom
City Clerk

Paul H. Stenwald
Presiding Officer

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 28th day of April, 19 71 at the hour of 8:30 o'clock A.M., E.S.T.

Harold S. Borchom
City Clerk

Approved and signed by me this 28th day of April, 1971, at the hour of 10:46 o'clock A.M., E.S.T.

Harold S. Zeis
Mayor

Bill No. G-70-02-16 (amended)

REPORT OF THE COMMITTEE ON REGULATIONS

We, your Committee on Regulations to whom was referred an Ordinance
amending the Building Code with respect to Commercial and Industrial (non-sanitary
pipng and systems).

have had said Ordinance under consideration and beg leave to report back to the Common
Council that said Ordinance Do PASS. as amended.

HERBERT G. TIPTON, Chairman

JACK K. DUNIFON, Vice-Chairman

THOMAS G. ADAMS

WILLIAM K. GEAKE

JOHN H. ROBINSON

CONCURRED IN
DATE 4-27-71 FUAD G. DONAHOO, CITY CLERK

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It is recommended that the inspection program include at least the following provisions:

(a) At least once a year a gas detector survey should be conducted in business districts, involving tests of the atmosphere in gas, electric, telephone, sewer and water system manholes at cracks in pavement and sidewalks and at other locations providing an opportunity for finding gas leaks. Leakage surveys, using one or more of the types referred to in 605.6.2.1, should be made of the distribution system outside of the principal business areas as frequently as experience indicates that they are necessary but not less than once every five years.

(b) Leaks located by these surveys shall be investigated promptly and any necessary repairs shall be made. When the condition of a main or a service, as indicated by leak frequency records or visual observation, deteriorates to the point where it should not be retained in service, it should be replaced or reconditioned.

605.6.3 - Abandoning of Distribution Facilities

Each operating company shall have a plan in its operating and maintenance procedures for sealing off the supply of gas to all abandoned distribution facilities including service lines, mains, control lines, equipment and appurtenances. This plan shall include procedures for abandoning service lines that have remained inactive for a period of 2 years and for which there is no planned use. It is recommended that the plan include the following provisions:

(a) If the Facilities are abandoned in place or are disconnected or separated, the ends shall be capped, plugged or otherwise effectively sealed.

(b) In cases where a main is abandoned, together with the service lines connected to it, only the customer's end of such service lines need be sealed as stipulated above.

605.6.4 - Test Requirement for Reinstating Abandoned and Temporarily Disconnected Service Lines.

Service lines previously abandoned shall be tested in the same manner as new service lines before being re-instated. Service lines temporarily disconnected because of main renewals or other work shall be tested from the point of disconnection to the meter set assembly in the same manner as new service lines before reconnecting. Water, air, inert gas or gas may be used as the test medium.

NON FLAMMABLE GAS SYSTEMS

All piping, materials, appliances, equipment and installations in connection with non-flammable gases shall be in conformity with the standards of the Underwriters Laboratories, Inc., the American Society of Mechanical Engineers for Pressure Piping for Unfired Pressure Vessels and for Pressure Relieving Devices, and the standards of the National Fire Protection Association, numbered 56F and titled "Non-Flammable Medical Gas System."

FLAMMABLE LIQUIDS

All piping materials, appliances, equipment and installations in connection with flammable liquids shall be in conformity with the standards of the Underwriters Laboratories, Inc., the rules and regulations of the State Fire Marshal of Indiana, the National Safety Council, Inc., Pamphlet No. 24, titled "Safe Practices," and the standards of the National Fire Protection Association numbered and titled as follows:

<u>Number</u>	<u>Title</u>
30	Flammable and Combustible Liquids Code.
31	Installation of Oil Burning Equipment.
32	Dry Cleaning Plants.
321	Basic Classifications, Flammable and Combustible Liquids.
325A	Flash Points - Trade Name Liquids
325M	Prop. Flammable Liquids
326	Warning Labels on Flammable Liquid Containers
327	Cleaning Small Tanks
328	Manholes, Sewers, Flammable Liquids & Gases
329	Leakage from Underground Flammable and Combustible Liquid Tanks.
33	Spray Finishing Using Flammable Materials.
34	Dip Tanks Containing Flammable or Combustible Liquids.
35	Manufacture of Organic Coatings.
36	Solvent Extraction Plants.
37	Combustion Engines and Gas Turbines.

607.1 Additional Requirements

607.1.1 Installation of underground tanks shall be in conformity with rules and regulations of the State Fire Marshal of Indiana concerning use, handling, storage and sale of Flammable Liquids.

Excavation - Excavation for underground storage tanks shall be made with due care to avoid undermining of foundations of existing structures.

Depth and Cover - Underground tanks shall be fixed to firm foundations and surrounded with bank run gravel well tamped in place. Tanks under driveways or heavy traffic areas shall be covered with not less than 16 inches of bank run gravel and not less than eight inches of reinforced concrete. Tanks under non-traffic areas shall be covered with not less than 24 inches of bank run gravel.

607.1.2 Discharge piping from underground tanks.

Pipes shall be substantially supported and protected against physical damage and excessive stresses arising from settlement, vibration, expansion or contraction, and shall include a section of flexible pipe not less than one foot in length starting at the tank joint. This flexible pipe shall be approved for the purpose. All pipes shall drain toward the main tank.

607.1.3 Safety Shut Off Valves

Where submersible pumps are used in flammable liquid tanks, a remote shut-off, or impact valve shall be installed, solidly connected with the pedestal or island, and approved for the purpose.

607.1.4 Vent Piping

Vent piping shall be laid so as to drain toward the tank without sags or traps in which liquid can collect. They shall be located so that they will not be subjected to physical damage. The tank end of the vent pipe shall enter the tank through the top.

607.1.5 Removal of Tanks

Underground tanks containing flammable liquids including, but not limited to gasoline, fuel and waste oil, shall be removed upon abandonment. Abandonment, for the purpose of this section, shall be construed to mean that the premises will be used for other purposes not requiring the use of the tanks.

NON FLAMMABLE LIQUID SYSTEMS

All piping, material, appliances, equipment and installations used in connection with non-flammable liquid systems, including, but not limited to processing condensates, milk and food products, brine, refrigerants, hydraulic fluids, carbon dioxide, etc., shall be in conformity with the standards of the American Society of Mechanical Engineers, and the recommended standards of the Fluid Power Society and their then current publications.

609

FIRE PROTECTION SYSTEMS

All materials and installation in connection with fire protection systems shall be in conformity with the rules and regulations of the State Fire Marshal of Indiana, and the standards of the National Fire Protection Association, numbered and titled as follows:

<u>Number</u>	<u>Title</u>
11	Foam Extinguishing Systems.
12	Carbon Dioxide Extinguishing Systems.
13	Installation of Sprinkler Systems.
14	Installation of Standpipe and Hose Systems.
15	Water Spray Systems for Fire Protection.
16	Foam-Water Sprinkler and Spray Systems.
17	Dry Chemical Extinguishing Systems.
20	Installations of Centrifugal Fire Pumps.
22	Water Tanks for Private Fire Protection.
23	Fire Department Connections, Sprinkler, Standpipe Systems.
24	Outside Protection (Yard Piping).

610

CHEMICAL SYSTEMS

All piping, materials, appliances and equipment used in connection with chemical systems shall be in conformity with the applicable ANST Standard, such as ANST STD. B31.6, Chemical Plant Piping.

611

RADIOACTIVE MATERIALS SYSTEMS

All piping systems conveying radioactive materials shall be installed in accordance with the recommendations of Atomic Energy Commission of the Federal Government and the standards of the National Fire Protection Association, #301 - "Safe Practice for Nuclear Reactors," and USE STD. B31.7 Nuclear Power Piping.

612

GENERAL REGULATIONS

613.1 Any type of piping system not specifically covered by this code shall be installed in accordance with accepted practice for that type of piping, and in accordance with rules and regulations of other regulatory bodies having jurisdiction thereof, and shall be in conformity with manufacturers' recommendations. Two copies of the manufacturers' recommendations shall be furnished the Building Commissioner upon making application for a permit for the specific installations."

SECTION 4. This ordinance shall be in full force and effect from and after its passage, approval by the Mayor and legal publication as required by law.

APPROVED AS TO FORM
AND LEGALITY


CITY ATTORNEY

GENERAL ORDINANCE NO. G-_____

AN ORDINANCE amending the Building Code with respect to Commercial and Industrial (non-sanitary piping and systems).

BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA:

SECTION 1. Section 108.4 of Division 100 of Chapter 37 of the Municipal Code of the City of Fort Wayne, Indiana, 1946, as amended and re-codified by General Ordinance No. G-66-66, passed by the Common Council on June 14, 1966, and approved by the Mayor on June 15, 1966, hereinafter referred to as the Building Code, is hereby amended by adding thereto the following:

"108.4.1 Permits

- 108.4.1.1 Need for Permit - No Non-Sanitary piping work shall be done in the city in any building or other place coming within the jurisdiction of this code, except in case of repair of leaks in existing systems until a permit has been issued for the plumbing work proposed.
- 108.4.1.2 Resident Owner - A permit may be issued to the owner of any building used and occupied by him, work for which a permit is required by this code if said work shall be actually done by the resident owner or a member of his immediate family, and the applicant furnishes a sworn statement to that effect. No permit shall be issued to the owner of any building to do his own piping work if the building for which the permit is required is a place of business, apartment house, rental unit, or as a house to be offered for resale within one year.
- 108.4.1.3 Unlawfully Securing Permits for Others - Any person duly licensed as required by this Code to supervise or perform any work governed by this Code, who shall, as such licensee, take out or secure a permit as required by this Code for work to be done by any person not connected with such licensee, nor in the employ of such licensed person, or, who shall allow his name to be used by any other person for the purpose either of doing any such work or obtaining permit therefor, shall by such act, upon conviction thereof forthwith forfeit his license.

- 108.4.2 Application - Before the granting of a permit, an application shall be made on the appropriate blanks as are provided for that purpose. The permit shall then be issued by the Building Department.
- 108.4.3 Expiration of permit - Every permit shall be considered void if active work is not commenced within a period of ninety days after the date of issuance of same. However, an extension may be granted by the Building Commissioner upon request. If active work on an installation has been suspended for a period of sixty days, the permit for such work shall be considered null and void.
- 108.4.4 Revocation of Permit - The Piping Inspector may revoke a permit issued when there has been any false statement or misrepresentation in the application or plans on which the permit was based. The Piping Inspector may revoke a permit issued if reasonable access for inspection under this Code should be withheld from a properly authorized person."

SECTION 2. Section 109.4 of Division 100 of the Building Code is hereby amended by adding thereto the following:

"109.4 COMMERCIAL AND INDUSTRIAL (NON-SANITARY) PIPING & SYSTEMS

- 109.4.1 Fees for Permit - Fees for permits are listed below and will be based on the cost or value of the piping systems.
- | | |
|---|-------------|
| \$ 0.00 - \$1,000.00----- | \$3.00 |
| \$1,000.00 - \$2,000.00----- | \$5.00 |
| Over \$2,000.00----- | \$5.00 plus |
| an additional fee of \$1.00 for each \$1,000.00 of cost | |
| or value or fractional part thereof in excess of | |
| \$2,000.00. | |
- 109.4.2 Technical Variance Fee - The application fee for any technical variance shall be \$25.00."

SECTION 3. Division 600 of the Building Code is hereby amended to read as follows:

"DIVISION 600

COMMERCIAL & INDUSTRIAL

(NON-SANITARY) PIPING & SYSTEMS
(Minimum Requirements)

- 600.1 PURPOSE - The purpose of this code is to protect and preserve life and property of those coming under its jurisdiction within the limits of the City of Fort Wayne, Indiana.
- 601 SCOPE
601.1 - The following orders, rules, standards, regulations and classifications shall apply to all new construction, additions, alterations, remodeling or changes in occupancy or use, and repair or maintenance in, for or about any building or structure of any kind, class or character, used or to be used, for any purpose whatsoever.

601.2 - When in Paragraph 601.1, above, reference is made to additions, alterations, remodeling, repair or maintenance, it shall not be construed to mean that existing system, part or all of which may not comply with this code, shall be replaced in order that approval may be obtained for the additional, altered, remodeled, or repaired portion of the system.
- 602 DEFINITIONS - (None)
- 603 REFERENCE TO STANDARDS
603.1 - All installations shall be in strict conformity with the provisions of this ordinance, the Statutes of the State of Indiana, the rules and regulations issued by the State Fire Marshal of Indiana, or other State regulatory bodies, under authority of the State Statutes and shall be in conformity with approved standards of construction for safety to life and property. Unless otherwise specified in this code, conformity with the published standards listed and referred to hereafter shall be prima facie evidence of conformity with this code the same as if the referenced standards were printed herein.

603.2 - In case two or more of the above standards conflict, the requirements of the more restrictive standard shall prevail.
- 604 SYSTEMS COVERED
Piping Systems covered in this Division will include all systems not now covered in other Divisions of this code. Specifically such systems may be:

Flammable Gas Systems
Non-flammable Gas Systems
Flammable Liquid Systems

Non-flammable Liquid Systems
Fire Protection Systems
Chemical Systems
Radioactive Systems
Lawn Sprinkler Systems

605

FLAMMABLE GAS SYSTEMS

605.1 - All piping, materials, appliances and equipment used in connection with flammable gases should be in conformity with the standards of the State Fire Marshall of Indiana, the Underwriters Laboratories, Inc., the American Insurance Association, the United States of America Standards Institute, the American Gas Association, and/or the standards of the National Fire Protection Association, numbered and titled as follows:

NFPA Standards

<u>Number</u>	<u>Title</u>
37	Combustion Engines and Gas Turbines
51	Oxygen-Fuel Gas Systems for welding and cutting.
51B	Welding and Cutting Processes.
54	Installation of Gas appliances and Gas Piping in Buildings.
56	Flammable Anesthetics Code.
566	Bulk Oxygen Systems at Consumer Sites.
567	Gaseous Hydrogen Systems at Consumer Sites.
58	Storage and Handling of Liquified Petroleum Gases.
59	LP-Gases at Utility Gas Plants.

USA Standards

<u>Number</u>	<u>Title</u>
B31.1	Power Piping Systems
B31.2	Industrial Gas & Air Piping Systems
B31.3	Petroleum Refinery Piping
B31.4	Liquid Petroleum Transportation Piping
B31.8	Gas Transmission and Distribution Piping Systems

605.2

WORKMANSHIP

All labor shall be performed in a thorough and workman-like manner, and whenever it appears, in the opinion of the Inspector, that any work covered by this Division is being otherwise installed, the Inspector shall order such changes as he shall deem necessary.

605.3

WELDING - GENERAL REQUIREMENTS

605.3.1 - Identification of Welds.
Each welder shall permanently identify welds made by him with a symbol which has been registered with the Piping Inspector.

605.3.2 - Certification of Welders.

Each welder shall be qualified for the type of welding being performed. Such qualification shall be evidenced by certification with the Piping Inspector.

605.3.2.1 - Regualification requirements

Welder regualification tests shall be required if there is some specific reason to question a welder's ability or the welder is not engaged in a given process of welding (i.e., arc or gas) for a period of six months or more.

605.3.3 - Testing ^{WITH} of Welds.

Periodically, ^{WITH} frequency as specified by the Piping Inspector, weld samples may be required for test and evaluation for quality.

605.4

PIPELINE SAFEGUARDS

Installation of flammable gas pipelines shall include adequate safeguards, which include but are not limited to the following.

605.4.1 - Relief Valves.

When pressure reducing devices are used, a suitable device shall be provided in addition to prevent actual over pressuring. Suitable types of protective devices shall prevent over pressuring of distribution systems and may include:

- (1) Liquid seal devices
- (2) Mechanical relief valves
- (3) Automatic shut off devices
- (4) Pilot loaded back pressure regulators
- (5) Monitoring regulators
- (6) Series regulator

605.4.2 - Depth of Burial

Pipes shall be installed so as to withstand maximum anticipated superimposed loads.

605.4.3

Pipeline shall be pressure tested and all leaks repaired before placing in service.

605.5

ODORIZATION

Any gas distributed to customers through gas mains or service lines or used for domestic purposes in compressor plants, which does not naturally possess a distinctive odor to the extent that its presence in the atmosphere is readily detectable at all gas concentrations of one-fifth of the lower explosive limit and above, shall have an odorant added to make it so detectable.

605.5.1 - When odorant is added, periodic sampling shall be conducted to determine effectiveness of odorization and necessary records kept by the gas supplier. Such records shall be readily available for inspection by the Building Commissioner or his designee.

605.6 - DISTRIBUTION PIPING MAINTENANCE

605.6.1 - Patrolling

Distribution mains, which are installed in locations or on structures where abnormal physical movement or abnormal external loading could cause failure or leakage, shall be patrolled periodically, and the frequency of patrolling shall be determined by the severity of the conditions which could cause failure or leakage and the consequent hazards to public safety. Once the frequency of inspection has been established by the piping inspector, the owner shall submit certification that such inspections were held and further shall submit a report of their findings to the piping inspector.

605.6.2 - Leakage Surveys and Routine Procedures

605.6.2.1 - Each operating company having a gas distribution system shall set up in its operating and maintenance plan a provision for the making of periodic leakage surveys. The types of surveys prescribed in the plan shall be one or more of the following employed singly or in combination, or some other effective procedure for locating leaks in underground piping systems:

- (a) Gas detector surveys.
- (b) Bar Test surveys.
- (c) Vegetation surveys.
- (d) Pressure drop surveys.
- (e) Soapsuds testing on exposed pipe and fittings.

605.6.2.2 - The nature of the operations and local conditions of each individual company shall determine the type and scope of the leakage control program most suitable. The character of the general service area together with housing concentration should determine the frequency of the inspection program.

It is recommended that the inspection program include at least the following provisions:

(a) At least once a year a gas detector survey should be conducted in business districts, involving tests of the atmosphere in gas, electric, telephone, sewer and water system manholes at cracks in pavement and sidewalks and at other locations providing an opportunity for finding gas leaks. Leakage surveys, using one or more of the types referred to in 605.6.2.1, should be made of the distribution system outside of the principal business areas as frequently as experience indicates that they are necessary but not less than once every five years.

(b) Leaks located by these surveys shall be investigated promptly and any necessary repairs shall be made. When the condition of a main or a service, as indicated by leak frequency records or visual observation, deteriorates to the point where it should not be retained in service, it should be replaced or reconditioned.

605.6.3 - Abandoning of Distribution Facilities

Each operating company shall have a plan in its operating and maintenance procedures for sealing off the supply of gas to all abandoned distribution facilities including service lines, mains, control lines, equipment and appurtenances. This plan shall include procedures for abandoning service lines that have remained inactive for a period of 2 years and for which there is no planned use. It is recommended that the plan include the following provisions:

(a) If the Facilities are abandoned in place or are disconnected or separated, the ends shall be capped, plugged or otherwise effectively sealed.

(b) In cases where a main is abandoned, together with the service lines connected to it, only the customer's end of such service lines need be sealed as stipulated above.

605.6.4 - Test Requirement for Reinstating Abandoned and Temporarily Disconnected Service Lines.

Service lines previously abandoned shall be tested in the same manner as new service lines before being re-instated. Service lines temporarily disconnected because of main renewals or other work shall be tested from the point of disconnection to the meter set assembly in the same manner as new service lines before reconnecting. Water, air, inert gas or gas may be used as the test medium..

606 NON FLAMMABLE GAS SYSTEMS

All piping, materials, appliances, equipment and installations in connection with non-flammable gases shall be in conformity with the standards of the Underwriters Laboratories, Inc., the American Insurance Association, the American Society of Mechanical Engineers for Pressure Piping for Unfired Pressure Vessels and for Pressure Relieving Devices, and/or the standards of the National Fire Protection Association, numbered 565 and titled "Non-Flammable Medical Gas System."

607 FLAMMABLE LIQUIDS

All piping, materials, appliances, equipment and installations in connection with flammable liquids shall be in conformity with the standards of the Underwriters Laboratories, Inc., the American Insurance Association, the rules and regulations of the State Fire Marshall of Indiana, the National Safety Council, Inc., Pamphlet No. 24, titled "Safe Practices," and/or the standards of the National Fire Protection Association numbered and titled as follows:

<u>Number</u>	<u>Title</u>
30	Flammable and Combustible Liquids Code.
31	Installation of Oil Burning Equipment.
32	Dry Cleaning Plants.
321	Basic Classifications, Flammable and Combustible Liquids.
325A	Flash Points - Trade Name Liquids
329	Leakage from Underground Flammable and Combustible Liquid Tanks.
326	Warning Labels on Flammable Liquid Containers
33	Spray Finishing Using Flammable Materials.
34	Dip Tanks Containing Flammable or Combustible Liquids.
35	Manufacture of Organic Coatings.
36	Solvent Extraction Plants.
37	Combustion Engines and Gas Turbines.

607.1 Additional Requirements

607.1.1 -Installation of underground tanks.

Excavation - Excavation for underground storage tanks shall be made with due care to avoid undermining of foundations of existing structures.

Depth and Cover - Underground tanks shall be fixed to firm foundations and surrounded with bank run gravel well tamped in place. Tanks under driveways or heavy traffic areas shall be covered with not less than 16 inches of bank run gravel and not less than eight inches of reinforced concrete. Tanks under non-traffic areas shall be covered with not less than 24 inches of bank run gravel.

607.1.2 Discharge piping from underground tanks.

Pipes shall be substantially supported and protected against physical damage and excessive stresses arising from settlement, vibration, expansion or contraction, and shall include a section of flexible pipe not less than one foot in length starting at the tank joint. This flexible pipe shall be approved for the purpose. All pipes shall drain toward the main tank.

607.1.3 Removal of Tanks

Underground tanks containing flammable liquids such as gasoline, fuel and waste oil, shall be removed upon abandonment. Abandonment, for the purpose of this section, shall be construed to mean that the premises will be used for other purposes not requiring the use of the tanks.

607.1.4 Vent Piping

Vent piping shall be laid so as to drain toward the tank without sags or traps in which liquid can collect. They shall be located so that they will not be subjected to physical damage. The tank end of the vent pipe shall enter the tank through the top.

608 - NON-FLAMMABLE LIQUID SYSTEMS

All piping, material, appliances, equipment and installations used in connection with non-flammable liquid systems, such as processing condensates, milk and food products, brine, refrigerants, hydraulic fluids, carbon dioxide, etc., shall be in conformity with the standards of the American Society of Mechanical Engineers, and the recommended standards of the Fluid Power Society and their then current publications.

609 FIRE PROTECTION SYSTEMS

All materials and installation in connection with fire protection systems shall be in conformity with the rules and regulations of the State Fire Marshall of Indiana, the requirements of the Inspection Department of the Associated Factory Mutual Fire Insurance Companies and/or the standards of the National Fire Protection Association, numbered and titled as follows:

<u>Number</u>	<u>Title</u>
11	Foam Extinguishing Systems
12	Carbon Dioxide Extinguishing Systems
13	Installation of Sprinkler Systems
14	Installation of Standpipe and Hose Systems
15	Water Spray Systems for Fire Protection.
16	Foam-Water Sprinkler and Spray Systems.
17	Dry Chemical Extinguishing Systems.
20	Installations of Centrifugal Fire Pumps.
22	Water Tanks for Private Fire Protection.
23	Fire Department Connections, Sprinkler, Standpipe Systems
24	Outside Protection (Yard Piping).
290	Fire Hydrants for Private Fire Service.
291	Fire Hydrants Uniform Marking.
802	Fire Protection for Nuclear Reactors.

610 CHEMICAL SYSTEMS

All piping, materials, appliances and equipment used in connection with chemical systems shall be in conformity with the applicable USA Standard, such as USA STD. B31.6, Chemical Plant Piping.

611 RADIOACTIVE MATERIALS SYSTEMS

All piping systems conveying radioactive materials shall be installed in accordance with the recommendations of Atomic Energy Commission of the Federal Government and/or the standards of the National Fire Protection Association, #801 - "Safe Practice for Nuclear Reactors," and USE STD. B31.7 Nuclear Power Piping.

612 CONFLICTING STANDARDS

In case two or more of the above standards conflict, the requirements of the more restrictive standard shall prevail.

613 GENERAL REGULATIONS

613.1 Any type of piping system not specifically covered by this code shall be installed in accordance with accepted practice for that type of piping, and in accordance with rules and regulations of other regulatory bodies having jurisdiction thereof, and shall be in conformity with manufacturers' recommendations. Two copies of the manufacturers' recommendations shall be furnished the Building Commissioner upon making application for a permit for the specific installations."

SECTION 4. This ordinance shall be in full force and effect from and after its passage, approval by the mayor and legal publication as required by law.

Jack R. Dunger

APPROVED AS TO FORM
AND LEGALITY, _____

[Signature]
CITY ATTORNEY

Read the first time in full and on motion by Dunifon seconded by Nuckols and duly adopted, read the second time by title and referred to the (Committee on) Regulations (and to the City Plan Commission for recommendation) (and Public Hearing to be held after due legal notice, at the Council Chambers, City Hall, Fort Wayne, Indiana, on the _____ day of _____, 196____, at _____ o'clock P.M., E.S.T.)

Date: 2-10-70

Frank H. Bonakoon
City Clerk

Read the third time in full and on motion by Tipton seconded by Robinson and duly adopted, placed on its passage.
Passed (~~lost~~) by the following vote:

AYES 9, NAYS 0, ABSTAINED _____, ABSENT _____ to-wit:

Adams	<u>✓</u>	_____	_____	_____
Dunifon	<u>✓</u>	_____	_____	_____
Fay	<u>✓</u>	_____	_____	_____
Geake	<u>✓</u>	_____	_____	_____
Nuckols	<u>✓</u>	_____	_____	_____
Robinson	<u>✓</u>	_____	_____	_____
Rousseau	<u>✓</u>	_____	_____	_____
Steigerwald	<u>✓</u>	_____	_____	_____
Tipton	<u>✓</u>	_____	_____	_____

Date 4-27-71

City Clerk

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as ~~(Zoning Map)~~ (General) ~~(Annexation)~~ ~~(Special)~~ ~~(Appropriation)~~ Ordinance ~~(Resolution)~~ No. _____ on the 27th day of April, 19671.

ATTEST: (SEAL)

City Clerk

Presiding Officer

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 27th day of April, 19671 at the hour of 8:30 o'clock 1P.M., E.S.T.

City Clerk

Approved and signed by me this _____ day of _____, 196____, at the hour of _____ o'clock _____ .M., E.S.T.

Mayor

NE
DOORS
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\$85

WE HONOR
master charge
THE INTERMARK CARD

the following employed singly or in combination, or some other effective procedure for locating leaks in underground piping systems:

- (1) Gas detector surveys.
- (2) Soil test surveys.
- (3) Ventilation surveys.
- (4) Pressure decay surveys.
- (5) Suspended testing on exposed pipe and fittings.

Because of the nature of the operations involved, each of these individual methods will determine the type and extent of the leakage control program. The objective of the National Fire Protection Association program must be to determine the frequency of inspection and the type of inspection program.

Inspection programs should include at least the following program:

- (1) At least once a year a gas detector survey should be conducted in business locations providing an opportunity for finding gas leaks. Leakage surveys in an area of the types referred to in 4.1.1, should be made of the business areas as frequently as experience indicates that they are necessary.
- (2) Leaks located by these surveys shall be investigated promptly and any necessary repairs shall be made. When the location of a leak or a service, or installation, deteriorates, the control it should be replaced or reconstructed.
- (3) Abandoning of Distribution Facilities — Operating companies shall have in place operating and maintenance procedures for sealing off the supply of gas to abandoned distribution facilities and for sealing off the gas supply to abandoned distribution facilities. This shall include procedures for abandoning gas lines that have remained inactive for a period of 2 years and for which the plan includes the following provisions:

- (a) If the facilities are abandoned in place, they are disconnected or separated, and the service lines need to be sealed or effectively sealed.
- (b) In cases where a main is abandoned in place, the service lines connected to it, only the customers and the service lines need to be sealed or effectively sealed.
- (c) Test Requirement for Reinstated and Temporarily Disconnected Service Lines — Previously abandoned gas service lines shall be tested in the same manner as service lines temporarily disconnected because of main renewals or other work, before the point of disconnection, the meter set assembly or the meter set service lines before being placed in service.

INFLAMMABLE GAS SYSTEMS

Leakage control procedures, equipment and installations in connection with the standards of the Underwriters Laboratories, Inc., the American Society of Mechanical Engineers for Pressure Vessels, and the standards of the National Fire Protection Association, numbered 600 and titled "Non-Flammable Medical Gas Systems."

600 FLAMMABLE LIQUID SYSTEMS

All piping materials, appliances, equipment and the standards of the Underwriters Laboratories, Inc., the rules and regulations of the State Fire Marshal of Indiana, and the standards of the National Fire Protection Association numbered and titled as follows:

- 11 — Flammable and Combustible Liquids Code.
- 12 — Installation of Oil Burning Equipment.
- 13 — Dry Cleaning Plants.
- 14 — Basic Classifications, Flammable and Combustible Liquids.
- 15A — Flash Points — Trade Name Liquids.
- 16A — Prep. Flammable Liquids.
- 17A — Warning Labels on Flammable Liquid Containers.
- 18A — Cleaning Solvent Tanks.
- 19A — Wastewater, Sewers, Flammable Liquids and Gases.
- 20 — Leakage from Underground Flammable and Combustible Liquid Tanks.
- 21 — Oil Tanks Containing Flammable or Combustible Liquids.
- 22 — Construction of Organic Coatings.
- 23 — Solvent Extraction Plants.
- 24 — Combustion Engines and Gas Turbines.
- 25 — Additional Requirements.

601.1 Installation of underground tanks shall be in conformity with rules and regulations of the State Fire Marshal of Indiana concerning use, handling, storage and sale of Flammable Liquids.

Excavation — Excavation for underground storage tanks shall be made with care to avoid undermining of foundations and other structures.

Depth and Cover — Underground tanks shall be fixed to firm foundations and surrounded with an appropriate type of granular backfill well tamped in place. Tanks under driveways or heavy traffic areas shall be covered with not less than 18 inches of reinforced concrete. Tanks under non-traffic areas shall be covered with not less than 24 inches of granular fill.

601.2 Discharge piping from underground tanks shall be substantially supported and protected against physical damage. Flammability, vibration, expansion of contractible pipe shall be taken into account in the design of the tank joint. This flexible pipe shall be approved for the purpose.

All pipes shall drain toward the main drain.

601.3 Safety Shut-Off Valves — Where liquid tanks, or remote storage, or impact with the pedestal or lining, and are provided for the purpose.

601.4 Vent Piping — Vent piping shall be laid so as to drain toward the tank. It shall be located so that it will not be subjected to physical damage. The vent end of the vent pipe shall enter the tank through the top.

601.5 Removal of Tanks — Underground tanks containing flammable liquid and waste oil, shall be removed upon abandonment. Abandonment, for the purpose of this section, shall be construed to mean that the premises will be used for other purposes not requiring the use of tanks.

602 NON-FLAMMABLE LIQUID SYSTEMS

All piping, material, appliances, equipment and installations used in connection with non-flammable liquid systems, including, but not limited to processing, condensates, milk and food products, brines, refrigerants, hydraulic fluids, lubricants, etc., shall be in conformity with the standards of the American Society of Mechanical Engineers, and the Underwriters Laboratories, Inc., the rules and regulations of the State Fire Marshal of Indiana, and the standards of the National Fire Protection Association numbered and titled as follows:

- 11 — Foam Extinguishing Systems.
- 12 — Carbon Dioxide Extinguishing Systems.
- 13 — Installation of Sprinkler Systems.
- 14 — Installation of Standpipe and Hose Systems.
- 15 — Water Spray Systems for Fire Protection.
- 16 — Foam-Water Sprinkler and Spray Systems.
- 17 — Dry Chemical Extinguishing Systems.
- 18 — Installations of Centrifugal Fire Pumps.
- 19 — Water Tanks for Private Fire Protection.
- 20 — Fire Department Connections, Sprinkler, Standpipe Systems.
- 21 — Outside Protection (Yard Piping).

603 CHEMICAL SYSTEMS

All piping, materials, appliances and equipment used in connection with chemical systems shall be in conformity with the standards of the American Society of Mechanical Engineers, and the standards of the National Fire Protection Association numbered and titled as follows:

- 11 — RADIOACTIVE MATERIALS SYSTEMS.
- 12 — All piping systems conveying radioactive materials shall be installed in accordance with the recommendations of the Atomic Energy Commission of the Federal Government and the standards of the National Fire Protection Association, numbered and titled as follows:

- 11 — Code of Federal Regulations, Title 10, Part 20, Subpart D, Section 20.2.1, "Nuclear Power and Reactors."
- 12 — Code of Federal Regulations, Title 10, Part 20, Subpart D, Section 20.2.1, "Nuclear Power and Reactors."

604 GENERAL REGULATIONS

604.1 Any type of piping system not specifically covered by this code shall be installed in accordance with accepted practice for that type of piping, and in accordance with rules and regulations of other regulatory bodies having jurisdiction thereof, and shall be in conformity with manufacturers' recommendations. Two copies of the manufacturers' recommendations shall be furnished the Building Commissioner upon making application for a permit for the specific installation.

604.2 This Ordinance shall be in full force and effect from and after its passage, approved by the Mayor and Council of the City of Fort Wayne, Indiana, do hereby certify that the above and foregoing is a full, true and complete copy of General Ordinance No. 604-1, passed by the Common Council on the 27th day of April, 1971, and approved by the Mayor on the 28th day of April, 1971 and now remains in full force and effect.

WITNESS my hand, and the official seal of the City of Fort Wayne, Indiana, this 28th day of April, 1971.

Paul G. BOWMAN, City Clerk.

Tues., May 18, 1971

FORT WAYNE NEWS SENTINEL 7C

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604 GENERAL REGULATIONS

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604.2 This Ordinance shall be in full force and effect from and after its passage, approved by the Mayor and Council of the City of Fort Wayne, Indiana, do hereby certify that the above and foregoing is a full, true and complete copy of General Ordinance No. 604-1, passed by the Common Council on the 27th day of April, 1971, and approved by the Mayor on the 28th day of April, 1971 and now remains in full force and effect.

WITNESS my hand, and the official seal of the City of Fort Wayne, Indiana, this 28th day of April, 1971.

Paul G. BOWMAN, City Clerk.

THE

TECH

Common Council, City Fort Wayne
(Governmental Unit)

To: NEWS-SENTINEL Dr.

Allen County, Ind.

FORT WAYNE, INDIANA

PUBLISHER'S CLAIM

LINE COUNT

Display Matter (Must not exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set) — number of equivalent lines

Head number of lines

Body number of lines

Tail number of lines

Total number of lines in notice

614

1

615

COMPUTATION OF CHARGES

615 lines, 1 columns wide equals equivalent lines at 288¢
cents per line

\$ 177.12

Additional charge for notices containing rule or tabular work (50 per cent of above amount)

Charge for extra proofs of publication (50 cents for each proof in excess of two)

TOTAL AMOUNT OF CLAIM

\$ 177.12

DATA FOR COMPUTING COST

Width of single column 11 ems

Size of type 5½ point

Number of insertions two

Size of quad upon which type is cast 5½

Pursuant to the provision and penalties of Ch. 89, Acts 1967,

I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Date 5-19-71, 19

Title Clerk

PUBLISHER'S AFFIDAVIT

State of Indiana } as:
Allen County }

Personally appeared before me, a notary public in and for said county and state, the undersigned A. M. Hostman who, being duly sworn, says that she is Clerk

NEWS-SENTINEL

a DAILY newspaper of general circulation printed and published in the English language in the city of FORT WAYNE, INDIANA in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 2 time 2, the dates of publication being as follows:

May 11 and May 18, 1971

Subscribed and sworn to before me this 19th day of May 19 71

Notary Public

My commission expires March 8, 1974

Notice is hereby given that on the 27th day of April 1971, the Common Council of the City of Fort Wayne, Indiana, in its Regular Session, did pass the following General Ordinance, to-wit: In a Bill No. G-7829-1A (Amended) AN ORDINANCE amending the Building Code with respect to Commercial and Industrial Fire Loads.

THE
BUILDERS
SOCIETY
OF
FORT WAYNE
INDIANA
"CO"

601.1 PURPOSE — The purpose of this code is to protect and preserve life and property of those coming under its jurisdiction within the limits of the City of Fort Wayne, Indiana.

601.2 — The following orders, rules, statutes, regulations and classifications shall apply to all new construction, additions, alterations, remodeling or changes in occupancy of use, and repair or maintenance in, for or about any building or structure of any kind, class or character used or to be used, for any purpose whatsoever.

601.3 — When in Paragraph 601.1, above, reference is made to ordinance, distance, it shall not be construed to mean that existing system, part or all of which may not comply with this code, shall be replaced in order that approval may be obtained for the addition, alteration, remodeling, or required portion of the system.

602 DEFINITIONS — (None)

603 REFERENCE TO STANDARDS — All installations shall be in strict conformity with the provisions of this ordinance, the Statutes of the State of Indiana, the rules and regulations issued by the State Fire Marshal of Indiana, or other State regulatory bodies, and authority of the State Statutes and shall be in conformity with approved standards of construction for safety to life and property. Unless otherwise specified, it shall conform with the following standards listed and referred to hereafter shall be prime law evidence of conformity with this code the same as if the referenced standards were printed herein.

603.2 — In case two or more of the above standards conflict, the requirements of the more restrictive shall prevail.

604 SYSTEMS COVERED — Piping and systems covered in this Division include, but not limited to, those now covered in other Divisions of this code. Specifically such systems may be:

- Flammable Gas Systems
- Non-Flammable Gas Systems
- Non-Flammable Liquid Systems
- Fire Protection Systems
- Chemical Systems
- Radioactive Systems
- Low Pressure Gas Systems

605 FLAMMABLE GAS SYSTEMS

605.1 — All piping, materials, appliances and equipment used in connection with flammable gases shall be in conformity with the standards of the State Fire Marshal of Indiana, the Underwriters Laboratories, Inc., The American National Standards Institute, The American Gas Association, and the standards of the National Fire Protection Association, numbered and filed as follows:

- Number Title
- 31 — Combustion Engines and Gas Turbines
- 32 — Oxygen-Fuel Gas Systems for Welding and Cutting Processes
- 33 — Installation of Gas Appliances and Gas Piping in Buildings
- 34 — Flammable Aerosol Containers
- 56 — Bulk Oxygen Systems of Consumer Sites
- 57 — Gaseous Hydrogen Systems of Consumer Sites
- 58 — Storage and Handling of Liquefied Petroleum Gases
- 59 — Storage and Handling of Liquefied Petroleum Gases
- 60 — LP-Gases

ANSI Standards

- Number Title
- 831.1 — Power Piping Systems
- 831.2 — Industrial Gas & Air Piping Systems
- 831.3 — Petroleum Refinery Piping
- 831.4 — Liquid Petroleum Transportation Piping
- 831.5 — Gas Transportation and Distribution Piping Systems

606 WORKMANSHIP — All labor shall be performed in a thorough and workmanlike manner, and whenever it appears, in the opinion of the inspector, that any work covered by this Division is being otherwise installed, the inspector shall order such changes as he shall deem necessary.

607 WELDING REQUIREMENTS

607.1 — Identification of Welds.

Each welder shall permanently identify welds made by him with a symbol which has been registered with the Piping Inspector.

607.2 — Certification of Welders.

Each welder shall be qualified for the type of welding being performed, and shall be qualified by the Piping Inspector.

607.3 — Qualification Requirements.

Welder qualification tests shall be required if there is some specific reason to question a welder's ability or the welder is not engaged in a given process of welding (i.e., arc or gas) for a period of six months or more.

607.4 — Testing of Welds.

Periodically with frequency as specified by the Piping Inspector, weld samples may be required for test and evaluation.

608 PIPELINE SAFEGUARDS

Installation of flammable gas pipelines shall include adequate safeguards, which include but are not limited to the following:

- 608.1 — Relief Valves.
- When pressure-reducing devices are used, a suitable device shall be provided in addition to prevent backflow over pressure.
- Suitable types of protective devices shall prevent over pressure or distribution systems and may include:

- (1) Liquid seal devices
- (2) Mechanical relief valves
- (3) Automatic shut-off devices
- (4) Pilot loaded back pressure regulators
- (5) Monitoring regulators
- (6) Series relief
- (7) Relief of Burst

608.2 — Oil or Fuel.

Pipes shall be installed so as to withstand minimum anticipated superimposed loads.

608.3 — Pipeline shall be pressure tested and all leaks repaired before placing in service.

609 OROGRAPHY

Any gas distributed to customers through gas mains or service lines or used for domestic purposes shall be installed in a manner which does not naturally present a distinctive hazard to the extent that its presence in the atmosphere is readily detectable at all gas concentrations of one-fifth of the lower explosive limit and above, shall have an odorant added to make it so detectable.

609.1 — When Odorant is added, periodic testing shall be conducted to determine effectiveness of odorant. Records of such tests shall be kept by the gas supplier. Such records shall be readily available for inspection by the Building Commissioner or his designee.

610 DISTRIBUTION PIPING

610.1 — Piping.

Distribution mains, which are installed in locations subject to normal or abnormal external physical movement or abnormal external forces could cause failure or leakage, shall be protected periodically, and the frequency of protection shall be determined by the severity of the conditions which could cause failure or leakage and the consequent hazards to public safety.

All piping materials, appliances, equipment and installations in connection with flammable liquids shall be in conformity with the standards of the Underwriters Laboratories, Inc., The American National Standards Institute, The American Gas Association, and the standards of the National Fire Protection Association, numbered and filed as follows:

- Number Title
- 31 — Flammable and Combustible Liquids
- 32 — Installation of Oil Burning Equipment
- 33 — Dry Cleaning Plants
- 34 — Basic Classifications, Flammable and Combustible Liquids
- 225A — Flash Points — Trade Name Liquids
- 225M — Prop. Flammable Liquids
- 226 — Warning Labels on Flammable Liquid Containers
- 227 — Methyls, Sewers, Flammable Liquids
- 228 — Leakage from Underground Flammable and Combustible Liquid Tanks
- 229 — Spray Finishing Using Flammable Materials
- 230 — Dry Tanks Containing Flammable Liquids
- 231 — Manufacture of Organic Coatings
- 232 — Combustion Engines and Gas Turbines

607.1 Additional Requirements.

607.1.1 Installation of underground tanks shall be in conformity with rules and regulations of the State Fire Marshal of Indiana concerning gas handling, storage and sale of flammable liquids.

Underground storage tanks shall be made with one inch minimum thickness of foundation of existing structures.

Depth and Cover — Underground tanks shall be fitted to firm foundations and surrounded with an appropriate type of granular bedding well tamped in place.

Tanks and coverings, or heavy traffic from 12 inches of reinforced concrete. Tanks and covers shall be covered with not less than 24 inches of granular fill.

607.1.2 Discharge piping from underground tanks —

Pipes shall be substantially supported and protected against physical damage and excessive stresses arising from settlement, vibration, expansion or contraction.

The pipe shall be covered with not less than 12 inches of reinforced concrete. Tanks and covers shall be covered with not less than 24 inches of granular fill.

607.1.3 Safety Shut-Off Valves — Where variable pumps are used in flammable liquid tanks, remote shutoff, or inverse valve shall be installed, suitably connected with the material or liquid in the tank.

607.1.4 Vent Piping — Vent piping shall be laid so as to drain toward the tank without sags or traps in which liquid can collect. They shall be located so that they will not be subjected to physical damage. The tank end of the vent pipe shall enter the tank through the top.

607.1.5 Removal of Tanks — Underground tanks containing flammable liquids, including but not limited to gasoline, fuel and kerosene, shall be removed upon abandonment. Abandonment, for the purpose of this section, shall be construed to mean that the premises will be used for other purposes not requiring the use of the tanks.

608 NON-FLAMMABLE LIQUID SYSTEMS

All piping materials, appliances, equipment and installations, and in connection with non-flammable liquids, including but not limited to processing condensates, and food products, brine, refrigerants, hydraulic fluids, carbon dioxide, etc., shall be in conformity with the standards of the American Society of Mechanical Engineers, and the recommended standards of the Fluid Power Society and their then current publications.

609 FIRE PROTECTION SYSTEMS

In connection with fire protection systems shall be in conformity with the rules and regulations of the State Fire Marshal of Indiana, and the standards of the National Fire Protection Association, numbered and filed as follows:

- Number Title
- 1 — Foam Extinguishing Systems
- 2 — Carbon Dioxide Extinguishing Systems
- 3 — Installation of Sprinkler Systems
- 4 — Water Spray Systems for Fire Protection
- 5 — Foam-Water Sprinkler and Spray Systems
- 6 — Dry Chemical Extinguishing Systems
- 7 — Installations of Centrifugal Fire Pumps
- 8 — Water Tanks for Private Fire Protection
- 9 — Fire Department Connections, Sprinkler Standpipe System
- 10 — Outside Protection (Vand Piping)

610 CHEMICAL SYSTEMS

All piping materials, appliances and equipment used in connection with chemical systems shall be in conformity with the applicable ANSI Standards, such as ANSI STD. B31.6 Chemical Plant Piping.

611 RADIOACTIVE MATERIALS SYSTEMS

All piping systems conveying radioactive materials shall be installed in accordance with the recommendations of the Federal Government and the standards of the National Fire Protection Association, No. 161 "Safe Practice for Nuclear Reactors" and USE STD. B31.7, Nuclear Power Piping.

612 GENERAL REGULATIONS

612.1 Any type of piping system not specifically covered by this code shall be installed in accordance with accepted practice for that type of piping, and in accordance with the rules and regulations of other regulatory bodies having jurisdiction hereover and shall be in conformity with manufacturers' recommendations.

Two copies of the manufacturers' recommendations shall be furnished the Building Commissioner upon making application for a permit for the specific installation.

SECTION 4. This Ordinance shall be in full force and effect from and after its passage by the Mayor and its publication as required by law of the City of Fort Wayne, Indiana, do hereby certify that the above and foregoing is a full, true and correct copy of General Ordinance No. 111177 as passed by the Common Council on the 27th day of April, 1977, and that said Ordinance was on the 28th day of April, 1977, and now remains on file and in full force and effect.

WITNESS my hand, and the official seal of the City of Fort Wayne, Indiana, this 28th day of April, 1977.

(Seal) PLAD C. BONAHOOM, City Clerk, 5-11-78.

Common Council City of Fort Wayne
(Governmental Unit)

To JOURNAL-GAZETTE Dr.

Allen County, Ind.

FORT WAYNE, INDIANA

PUBLISHER'S CLAIM

LINE COUNT

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614

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615

COMPUTATION OF CHARGES

615 lines, 1 columns wide equals equivalent lines at .238¢
cents per line

\$ 177.12

Additional charge for notices containing rule or tabular work (50 per cent of above amount)

Charge for extra proofs of publication (50 cents for each proof in excess of two)

TOTAL AMOUNT OF CLAIM

\$ 177.12

DATA FOR COMPUTING COST

Width of single column 11 ems

Size of type 5½ point

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Pursuant to the provision and penalties of Ch. 89, Acts 1967,

I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Date 5-19-71, 19

Title CLERK

PUBLISHER'S AFFIDAVIT

State of Indiana }
Allen County } as:

Personally appeared before me, a notary public in and for said county and state, the undersigned ARVILLA DEWALD who, being duly sworn, says that she is CLERK of the JOURNAL-GAZETTE

a DAILY newspaper of general circulation printed and published in the English language in the city of FORT WAYNE, INDIANA in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 2 time(s), the dates of publication being as follows:

May 11 and May 18, 1971

Subscribed and sworn to before me this 19th day of May 19 71

My commission expires March 8, 1974

Notary Public